SPECIFICATIONS:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, ASD, 13TH EDITION. (ALLOWABLE STRESS DESIGN)

AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION.

NOTES:

1. ALL HP10 SHALL BE ASTM A572, GRADE 50 (FY = 50 KSI) UNLESS NOTED OTHERWISE
2. ALL W10, WT, ANGLE AND PLATE SHALL BE ASTM A709, GRADE 50 (FY = 50 KSI).
3. ALL WELDS SHALL BE PREQUALIFIED AND ALL WELDERS AWS AND GEORGIA DEPARTMENT OF TRANSPORTATION CERTIFIED.
4. ALL WELDS SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.1-98.
5. USE E70-XX ELECTRODES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. SEAL WELD WHERE NOT STRUCTURAL WELDED.
7. ALL FASTENERS SHALL BE ¾" DIA., A325-SC U.N.O.3I4
8. HOLES SHALL BE 13/16" DIA. STANDARD ROUND HOLES U.N.O.
9. ALL BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GDOT SPECIFICATIONS, 501.3.03A.
10. PRETENSION ALL ¾" DIA. BOLTS TO 28 KIPS EACH. DO NOT REUSE BOLTS.
11. EXCEPT FOR BARRIER CONNECTION, ALL STRUCTURAL STEEL SHALL BE PAINTED PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS COLOR: BLACK TO MATCH FEDERAL PAINT STANDARD FS 37038.
12. BARRIER CONNECTION (PLATES V, S2, T AND REBAR) SHALL BE HOT DIPPED GALVANIZED PER ASTM A123. FOR ADDITIONAL NOTES, SEE SHEET 9 OF 9.
13. ESTIMATED DL DEFLECTION = ⅜". FABRICATE TRUSS WITH ½" CAMBER AT MIDSPAN.
14. ANCHOR BOLTS SHALL BE AASHTO 314 (ASTM F1554), GR. 55. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.
15. FABRICATOR SHALL FIT UP EACH VERTICAL PLANE OF TRUSS AND ENTIRE TOP CHORD WITH PORTAL, WIND AND CROSS BRACING PRIOR TO LEAVING THE SHOP TO ENSURE TRUSS SHALL FIT UP IN THE FIELD.
16. EXCEPT FOR BARRIER CONNECTION AND PLATE BB, ALL WELDING SHALL BE DONE IN THE FABRICATION SHOP.

LOADS:

DEAD LOAD ..... SELF WEIGHT

LIVE LOAD ..... SELF WEIGHT

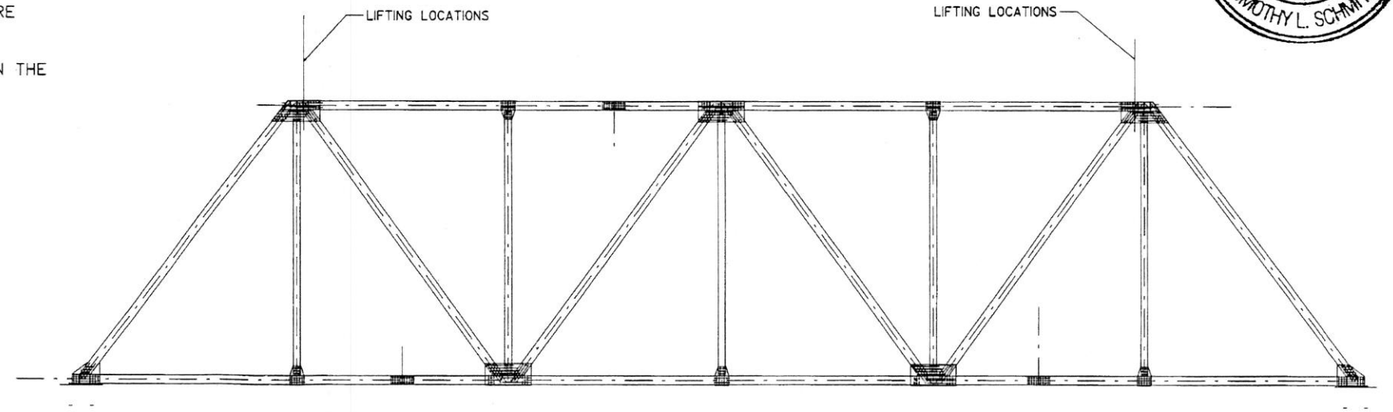
WIND ..... PER AASHTO 3.15

SEQUENCE OF CONSTRUCTION

1. FABRICATE TRUSS.
2. SHIP TO SITE.
3. BOLT UP ONE VERTICAL TRUSS.
4. BOLT UP SECOND VERTICAL TRUSS.
5. PLACE ONE VERTICAL TRUSS. PLACE ANCHORS TO BACK OF RAILING.
6. PLACE SECOND VERTICAL TRUSS. PLACE ANCHORS TO BACK OF RAILING.
7. PLACE LATERAL AND HORIZONTAL X-BRACING.
8. WELD PIN WASHER TO TOP ANCHOR.

NOTE: DETAILED ERECTION SEQUENCE SHALL BE SUBMITTED UNDER A SEPERATE COVER. IF CONTRACTOR IS UNABLE TO ERECT ENTIRE TRUSS IN A SINGLE DAY, THE VERTICAL TRUSS(ES) SHALL BE TIED OFF WITH CABLES TO STABILIZE.

GEORGIA REGISTERED No. 026358 PROFESSIONAL ENGINEER TIMOTHY L. SCHMITZ



LIFTING LOCATIONS

TRUSS ERECTION TO BE SUBMITTED UNDER A SEPERATE COVER

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FOR: HIGHWAY MATERIALS, INC.
5120 OLD DIXIE HIGHWAY
FOREST PARK, GA 30297

	NAME	DATE		NAME	DATE
DESIGNED BY	T. SCHMITZ	5/14/12	DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY	TIM SCHMITZ, P.E.				

BY: STRUCTURAL ENGINEERING SOLUTIONS, LLC
TRANSPORTATION AND CONSTRUCTION STRUCTURAL ENGINEER
3260 Iceline Way. Smyrna, Georgia 30080
P: 404-664-6383 F: 678-298-1823 Tim@StrEngSolutions.com

ARCHITECTURAL TRUSS DETAIL
SIXTH ST. OVER S.R. 155, C.R. 729 AND NORFOLK SOUTHERN RAILWAY
BRSTL-2517-00(001) SPALDING COUNTY

PROJECT NO. 100415
DRAWING NO. 1 OF 9